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M.W.A.K. Columbian, Vol. 1, No. 13

Mason-Walsh-Atkinson-Kier Co.

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M. W. A. K.

COLUMBIAN

SAFETY
DEPARTMENT

MASON-WALSH-ATKINSON-KIER CO.
BUILDERS OF COULEE DAM

MASON CITY
WASHINGTON

Vol. 1 No. 13

M. Pete Shrauger--Editor
Safety Engineer

September 20, 1935

WATER, WATER EVERYWHERE

The principal purpose of the Grand Coulee dam is the reclamation of a million acres of land in the Columbian Basin, but a sizeable amount of water is used in the process of building the structure that is to make reclamation possible.

There are three principal parts of the area that take plenty of water: the town itself, the gravel plant, and the concrete mixing plants on either side of the river.

To supply the town, three huge tanks have been erected on the hillside above the town, fed by a pipe line from a pumping station near the bend of the river. These tanks have a combined capacity of 350,000 gallons. Two of them hold 100,000 gallons, while the third, used as a settling tank, holds 150,000 gallons. This tank serves to settle the tiny bit of sediment, and is never drained below about the 50,000 gallon mark. All the water in these tanks is chlorinized, and

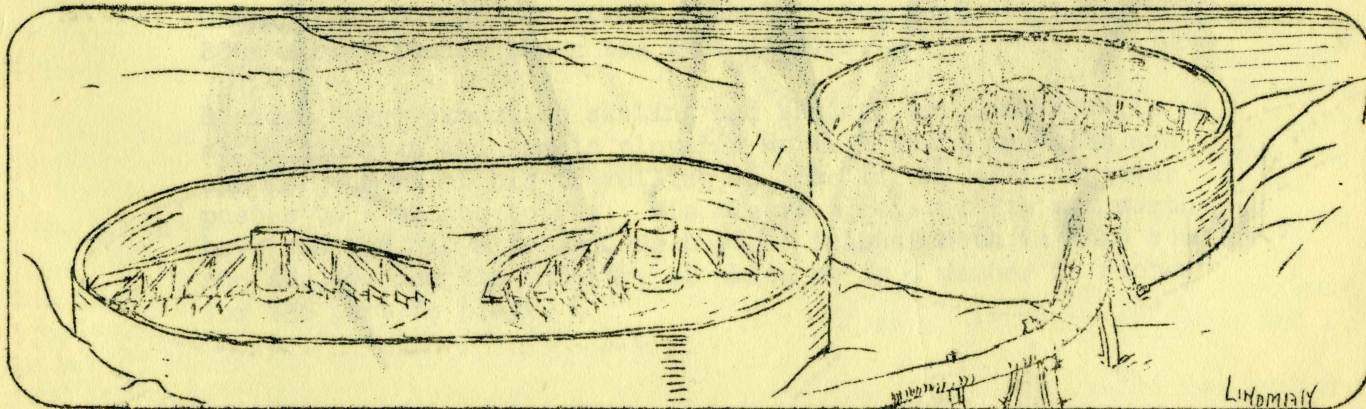
is the only water on the job pure enough to drink. Other river water is unsafe.

The gravel plant water supply also is taken from the river, with a pumping station below the airport. Here are located two 2500 gallon-per-minute Worthington pumps, of the turbine type, equipped with a 500 horsepower motor for wash pump.

The water is lifted a little over 600 feet by these pumps, through a 16 inch pipe line, to the wooden storage tank just above the screen house. A branch of this line also feeds into the screen house, where it is used for a rinse.

The wooden surge tank has a capacity of 100,000, and is kept filled by the spiral welded pipe from the pumps at the river.

Comparatively little "fresh" water is used at the gravel plant. By "fresh" is
(Continued on Page 5)



M. W. A. K. COLUMBIA

SAFETY DEPARTMENT
MASON CITY
WASHINGTON

September 20, 1935

Vol. 1 No. 15



FRANCIS DONALDSON

Mr. Donaldson was graduated by Lehigh University in 1901. Soon thereafter he went to work for the Dravo Company in their sales organization as a salesman and, using his own words, after two hours of strenuous effort as a salesman, he was fired into the Construction Division and has been in construction ever since. For a number of years he sank coal shafts for the Dravo Company, but in the course of time was promoted to locks and dams and ended up as their Chief Engineer.

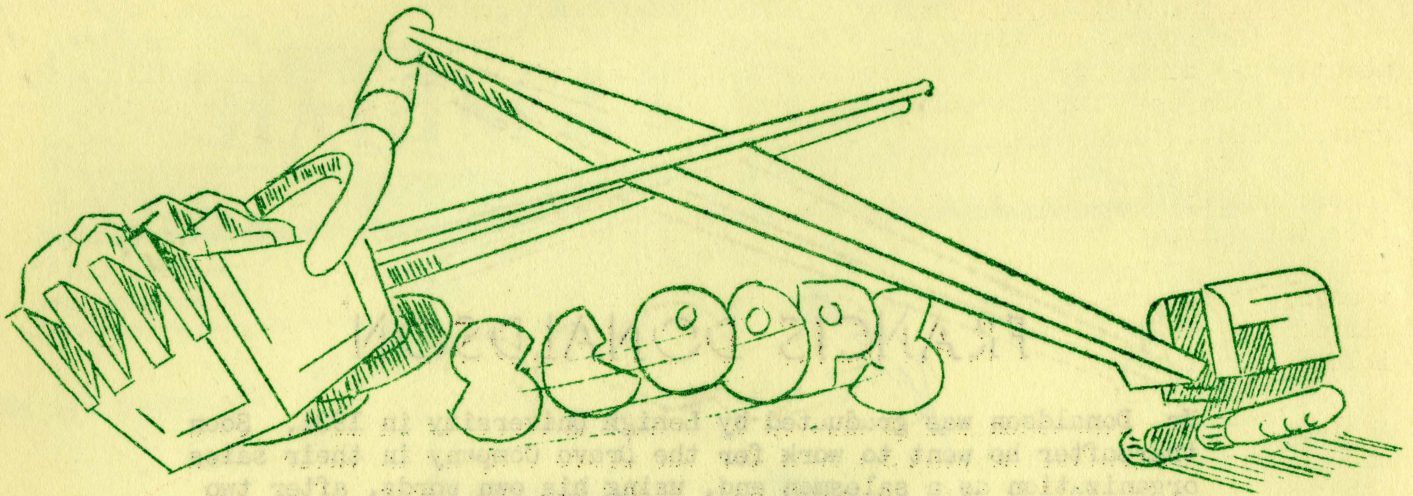
When the Catskill Aqueduct work was started he was sent to New York on shaft, caisson and tunnel work; became fascinated by the bright lights of the big town, and it took Coulee Dam to drag him away.

In the interim he became Chief Engineer for the T. A. Gillespie Company; later Managing Engineer of the Degnon Contracting Company; and finally Chief Engineer for the Mason & Hanger Company and Silas Mason Company.

During this period he assisted in constructing some of the huge projects that have made New York City the progressive and modern city that it is, notably the New York Connecting Railway; Fulton Street Tunnels under the East River; a number of open cut subway sections; and the west tower foundation of the George Washington Bridge. In this last project Mr. Donaldson was associated with Mr. H. L. Myer, and both of them modestly admit that this was the greatest cofferdam job ever done until Grand Coulee came along.

Mr. Donaldson was Chief Engineer of the Boston Traffic Tunnel for the Silas Mason Company; Chief Engineer for the Mason and Hanger Company on the Rutgers Street Tunnel in New York City, and the new 38th Street Tunnel under the Hudson River.

Besides being expert at skating and skiing, Mr. Donaldson is an able fisherman and tennis player. He is a great traveler and speaker. Most of his travelling is done in the air; he never passes up a chance to fly. His pleasant personality and worth have won for him a tremendous host of friends both in this country and abroad, and the industry of which he is a member is richer for the part he plays.



The young lady walked boldly up to the woman whom she took to be the matron of the hospital.

"May I see Lieutenant Barker, please," she asked.

"May I ask who you are?"

"Certainly, I am his sister."

"Well, well, I'm certainly glad to meet you. I'm his mother."

Evangelist: If I lead a donkey up to a pail of water and a pail of beer, which one will he drink?"

Unconverted: The water.

Evangelist: Right. Why?

Unconverted: Because he's an ass.

An Indian came in to get a loan from Duke. He wanted \$200 for an indefinite period, and when asked for security, said he had two hundred horses, and the loan was made. Several weeks later he came into the bank again. He peeled a couple of hundred dollar bills off a huge roll, paid his note, and started out.

Duke, businesslike, said to him, "Why not let us keep that money for you?"

The Indian thought a minute, remembering how he had to tell about his horses before he could have the loan. Finally he said to Duke: "How many horses YOU got?"

I signed a note for a well-loved friend,
For friendship is dear to me;
Now, here am I, and here is the note,
But where in the Hell is he?

Horses run races, but they don't bet on them.

J.O.Murray: "I'm inclined to give you the position if you are sure you understand the double-entry system of books."

Applicant: "Why at the last place, I had to keep triple entry books. One for the active partner, showing the real profits, one for the sleeping partner showing small profits, and one for the income tax officials, showing no profits."

"Come right in, Mrs. Gotrox,
And how do you feel today?

Has the medicine that I gave you
Chased your aches and pains away?"

"Oh Doctor! My breathing's painful,
And my heart goes pit-a-pat."

"Don't worry about your breathing,
I'll soon put a stop to that."
(Thanks to No. 228)

Father: "Young man, I understand you have made advances to my daughter.

Y.M.: Yes sir. I wasn't going to mention it, but now that you have, I wish you could get her to pay me back.

Lady: So you're on a submarine. What do you do?

Sailor: I run forward and hold her nose whenever we take a dive.

The Scotchman was having an argument over the fare, and the conductor claimed it was ten cents, while the Scot held out a nickel. In desperation, the conductor snatched the suitcase and threw it out as they passed over a bridge. "Man, the Scot yelled, "Ye're trying to drown my son."

WATER, WATER EVERYWHERE

(Continued from Page 1)

meant water direct from the river, that has not been used for any purpose in the gravel plant.

Because it would be too expensive, from the pumping standpoint, to use only fresh water from the river for all the washing operations in the gravel plant, clarifiers were designed to make it possible to use the water over and over again.

Two large concrete tanks were built, one of them circular in shape, and the other a double circle. At the centers of each of these tanks, uprights carry a pair of arms which rotate in the tanks, with steel plates barely clearing the floor to sweep the sludge into the center and into pipes. The arms rotate very slowly, taking from one to three minutes to make a revolution.

Dirty water, from the screen house, is drained into the tanks. An overflow pipe keeps the water at a certain level, and the excess water is stored in another big steel reservoir, with a capacity of 100,000 gallons. The single clarifier tank is 125 feet in diameter, while the larger one has two diameters, one 125 feet and the other 150 feet. Both tanks have a wall 11 feet high.

Three 300 horsepower motors drive as many 6000 gallon-per-minute pumps from the clarifier pumphouse, where the water is distributed back over the job again. Clear water from the river is used on the rinsing process in the screen house, drains down to the sand de-waterers, and gravitates to the clarifier tanks to be used again and again.

Because there will be some loss that is unavoidable, engineers are not sure as to the exact amount of water it will take to operate the plant; that is, how many hours a day the pumps at the river will be forced to operate.

Concrete mixing and pouring will take not a little water. A tank has been built for these operations on the west side,

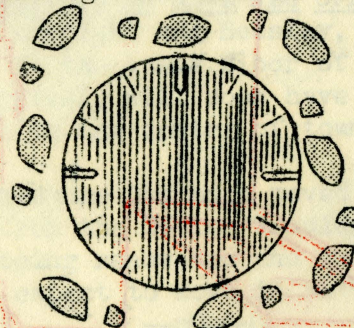
pipe lines run to various points. This tank will supply all water for concrete mixing operations, which will incidentally take a small proportion of the supply, and for sprinkling and cleaning work.

This tank is fed by a 1500 gallon-per-minute pump, and has a capacity of 100,000 gallons. It is expected that at capacity production, another similar pump may have to be installed, as the present one may easily be put to capacity work when pouring starts in earnest.

Water for the east side concrete pouring operations will probably be furnished from the city system, and another pump installed to handle the increased amount.

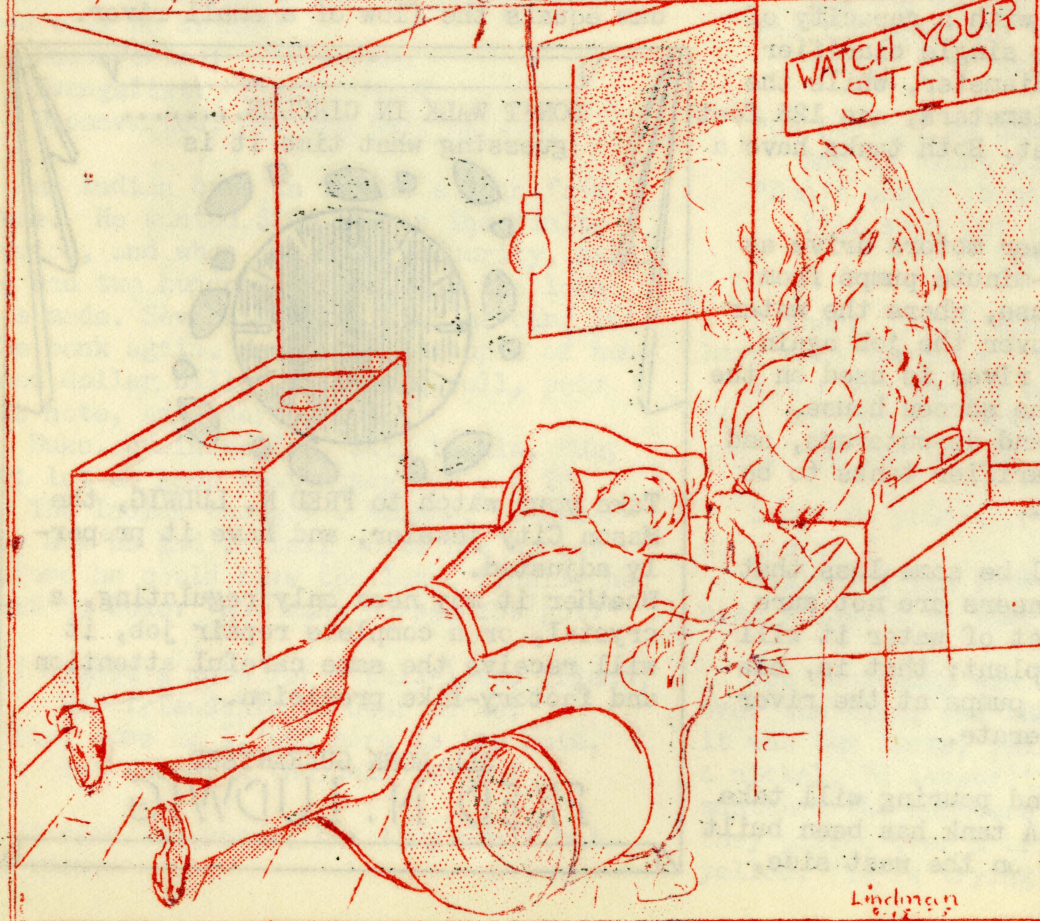
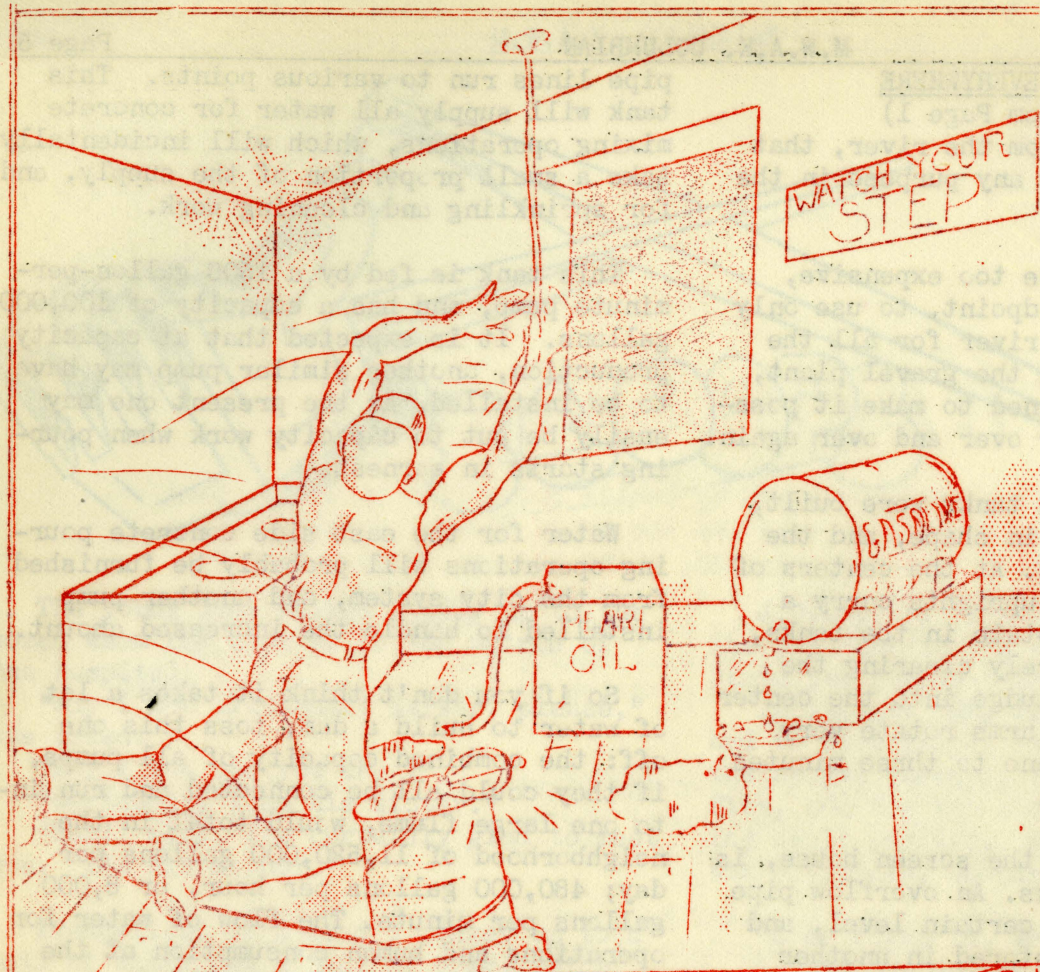
So if you don't think it takes a lot of water to build a dam, toss this one off: the combined capacity of all pumps, if they could all be connected and run into one large flume, would total in the neighborhood of 11,520,000 gallons per day; 480,000 gallons per hour, or 8,000 gallons per minute. The flow of water for operations and human consumption at the dam equals the flow of a small river.

DON'T WALK IN CIRCLES.....
guessing what time it is



Take your watch to FRED N. LUDWIG, the Mason City jeweler, and have it properly adjusted. Whether it may need only regulating, a crystal, or a complete repair job, it will receive the same careful attention and factory-like precision.

ALL WORK GUARANTEED
FRED N. LUDWIG






KEEP
AWAY FROM
GASOLINE



Lincoln

MASON CITY THEATRE

 <p>ROBESON</p>	 <p>HEPBURN</p>	 <p>FLORENCE RICE NORMAN FOSTER</p>
FRI & SAT	SUN & MON	TUES. ONLY

THE WEEK AT THE
THEATRE

The stirring voice of Paul Robeson, in negro songs sung as only he can sing them, will be heard on the Mason City screen Friday and Saturday, in "Saunders of the River." One of the world's greatest singers, Robeson is well known for his marvellous voice. Much of the picture was filmed "on location" in Africa.

Katharine Hepburn returns in her newest vehicle "Alice Adams," Pulitzer prize winner, playing here Sunday and Monday. Fans of la Hepburn will want to see this one.

A speed maniac, played by Norman Foster will thrill fans Tuesday night, with racing cars, and boats travelling at daredevil speed. "Super Speed," featuring Foster and Florence Rice, plays Tuesday only.

DENTISTS TO HAVE NEW OFFICE

Drs. Albright and Beasley, located at present in the lower floor of the Mason City hospital, will soon have new office quarters in the center of town.

A bunkhouse has been moved across the street from the Coulee Trading building, and is being renovated and remodelled. The doctors expect to move in within a week.

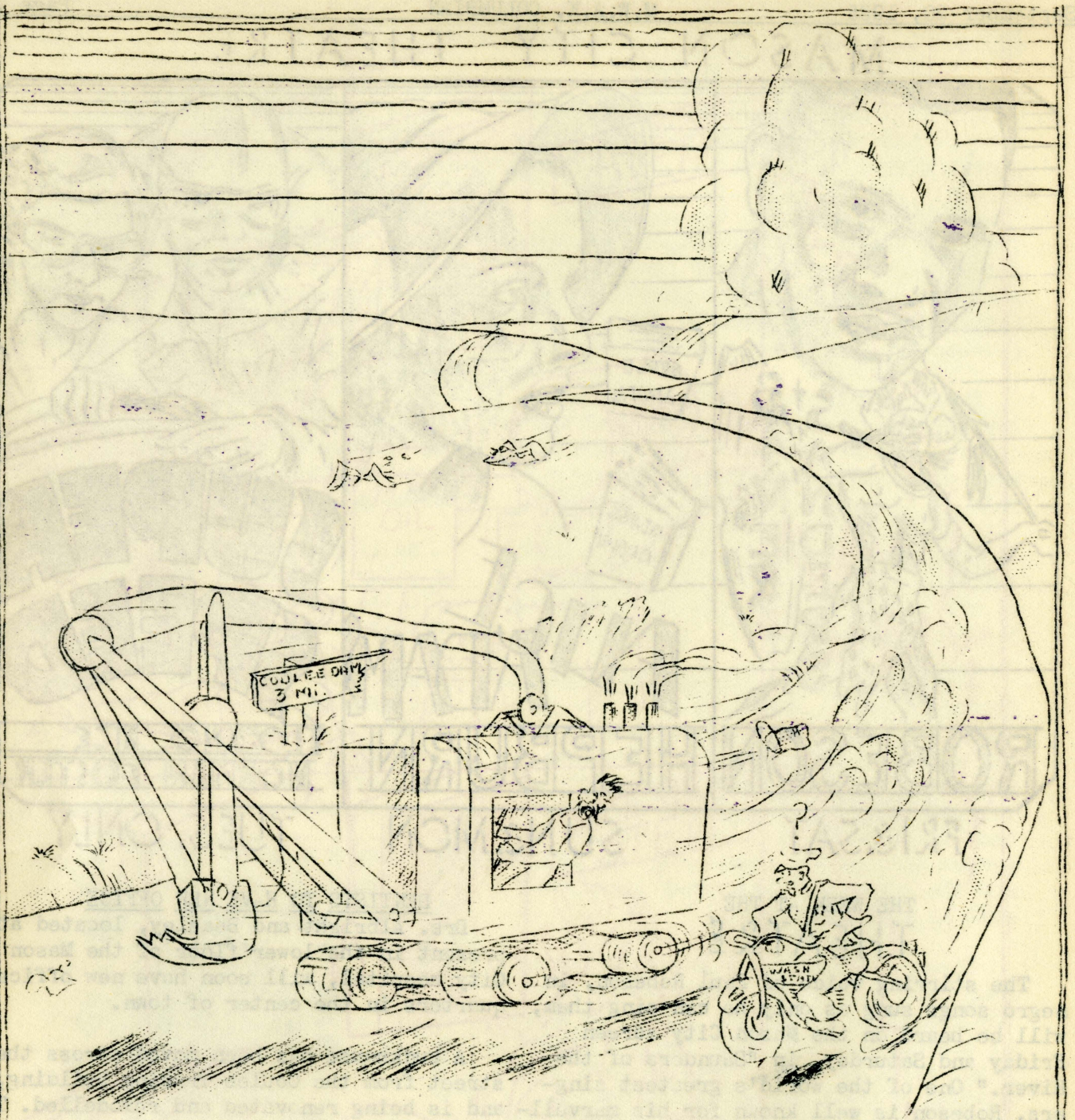
—oOo—

SAFETY MEETING TUESDAY

A safety meeting will be held in the north wing of the mess hall Tuesday September 24, 8 p.m., with Jay Olinger, Supervisor of safety for the Department of Labor and Industries at Olympia, as chief speaker. All foreman and superintendents not on shift are required to be there, and all others are invited to attend.

—oOo—

MAKE SAFETY A HABIT !



"THERE MUST BE A SCREW LOOSE OFFICER!
IT AINT DONE THIS BEFORE!"

LINDMAN



9-18-35

CHURCH NOTES

AMERICAN LEGION TO HOLD
DISTRICT MEETING HERE

CATHOLIC CHURCH

On Sunday, September 22, mass will be said in St. Benedict's church at Mason City, at 8:00 a.m.; and at the American Legion hall, Grand Coulee Center, at 10 am.

Confessions on Saturday evening and before each mass on Sunday. Instructions for the children on Saturdays at 10 a.m.

I have been informed that there are a number of men who wish to receive Holy Communion, but who cannot do so on account of their hours of work. For the convenience of these men, mass will be said here next Wednesday morning at 6:30 a.m. Confessions will be heard before mass.

Last Sunday, thirty-three men were enrolled in the Holy Name society. A further enrollment will take place on the third Sunday in October.

A. Farnelly, Pastor

---oOo---

As Reverend Albert N. Park, Jr., pastor of the Community church was out of town this week, details of the services could not be obtained. Hours will be:

9:45 a.m.: Sunday School

11:00 a.m.: Morning Worship

7:00 p.m.: Young Peoples Christian

Endeavor Society meeting.

The ninth district conference of the American Legion will be held at Mason City on Saturday, November 2. Details of the event will be announced later by Dr. Ross D. Wright, commander of the local unit.

---oOo---

SOFTBALL SCHEDULE

Monday, September 23: Recreation Hall and Police vs Coulee Trading Co.

Tuesday, September 24: Fire Department vs USBR Office.

Wednesday, September 25: Field Area vs USER Field.

Thursday, September 26: CCC's vs Fire Department.

Friday, September 27: Mess Hall vs Recreation Hall and Police.

---oOo---

SAFETY MEETING TUESDAY 8 P.M. BE THERE!

X-ray

X-ray

Drs. Albright and Beasley
Dentists

Mason City Hospital
North Wing
Ground Floor

No Connection
With Washington
Hospital Ass'n.

Open Evenings By Appointment

FRIDAY

SALMON SALAD SANDWICH

BEEF LOAF SANDWICH

FOUNTAIN SPECIALS

SATURDAY

CHICKEN LOAF SANDWICH

BAKED HAM RELISH SANDWICH

3 Expert Fountain Girls

LOUISE

Dorothy

Lillian

SNAPPY SERVICE

COULEE TRADING Co.

ACCIDENT PREVENTION

No accident can occur but for two causes: (1) Some person commits an unsafe act, or (2) A dangerous physical condition exists; or both.

Analysis of a large number of accidents shows that the unsafe acts of workers predominate in accident occurrence. Fully 85 per cent of the accidents which have occurred on the Coulee dam project can be traced to various unsafe acts.

Unsafe acts of workers can be detected in three different ways. (1) A foreman familiar with the routine of a particular job, and interested in stopping accidents, can observe men at work and note their unsafe performances.

(2) Foremen should study their accidents and see exactly where their men have received minor injuries, for if there are too many minor accidents, major ones are sure to follow. (3) The man in charge of any phase of this job is responsible at all times for men working under him. Never place an unskilled workman in a position where through his lack of knowledge of the work he may be injured. There is a very definite relationship between accident prevention and good supervision. So closely are the two linked, that a man's worth as a foreman may be indicated by his accident record.

MR. FOREMAN, it is up to you to watch your accidents. Protect your men, and your own job.

MASON CITY LAUNDRY

Suppose you're a modern housewife, who knows how to make a home bright and pleasant and comfy without spending too much. You send your laundry because that's the easiest way to get it spotlessly clean, and still have your freedom.

ROUGH DRY 8¢ pound
minimum 60¢

SHIRTS FINISHED on
this service
2 for 25¢

"Visitors are always welcome."

PHONE 72

DON'T FORGET SAFETY MEETING TUESDAY, SEPTEMBER 24

SAFETY IN THE MESS HALL

Safety appliances are in daily use at the big mess hall, to protect kitchen workers in their duties. One of the most outstanding is the automatic cut-off on a dough-mixer. Electrically operated, the machine runs only when the bin is closed, and automatically cuts out when the handle is turned to open the bin. There are numerous other safety appliances in the kitchen, for supervisors have found that lost time is costly both to employee and the employer.

---oOo---

According to Cap. "Mac" McCormack, of the Mason City police, anyone who considers himself a good horse shoe player, is invited to show up at the back of the fire hall. A barnyard golf layout has been set up here, and is in daily use.

Mason City

BEAUTY SALON

Permanent Waves (oil) 2.50 - 3.50-5.00
Shampoo, finger wave .75
Hair Cutting

OPERATED BY: Lee Foster, Nellie McDougal

MOTOR PRODUCTS

now open in Mason City Garage

AUTO PARTS.....ACCESSORIES

Battery and Generator Work

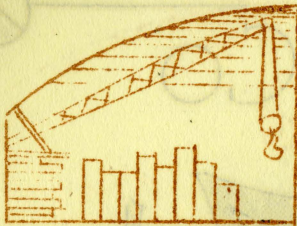
Mason City Garage Building

MASON CITY SERVICE STATION

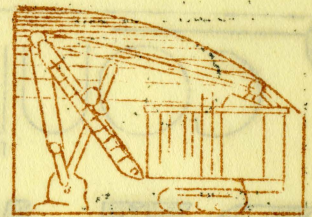
Gasoline
Standard Oils
Greases

U.S. Tires - Tubes

Accessories



AROUND THE DAM



DONALDSON GOING EAST

Francis Donaldson, chief engineer, is leaving with his family for New York. He will remain there for some time.

---oOo---

MAKES SPEAKING TOUR

Jack Hargrove, department vice-commander of the American Legion, returned recently from a trip to the Coast with Mrs. Hargrove. En route, Hargrove spoke at a meeting of the Peshastin post, Tuesday night, and talked the following night at Cashmere.

While in Seattle, he attended the installation of officers of Seattle Post Number One.

---oOo---

"DINKYS" ARRIVE

Two of the ten tiny "locomotives," to be used in shunting cars of materials around, and in concrete pouring operations have arrived at the dam. They were brought in the first part of the week, both of them on one flat car, and room to spare for a third.

The machines are only about ten feet long, and six feet high, and are powered with a "Caterpillar" power plant. They have received their numbers, being 300 and 301 respectively.

---oOo---

TEST GRAVEL PLANT

The first complete test of every part of the gravel plant was made Thursday, and everything reported as working perfectly.

Each of the 42 belts, which would reach a distance of four miles, was operated in coordination with the rest of the plant. It will be placed in actual operation in the next few days, back-filling around the tunnels and building up ground to proper levels for the operation of the plant.

SAFETY MEETING TUESDAY--DON'T FORGET

STRIKE HARD SHALE

Shale so hard an ordinary "muckstick" would not touch it, has been encountered in minor quantities in a part of the cofferdam area, where timber trusses and braces are being put in to strengthen the cellular steel wall. A machine similar to the ordinary jackhammer is used to break up the layers of dirt.

---oOo---

START PILE DRIVING

With the old Bucyrus-Erie shovel in the lead, the driving of the piling in the east side cofferdam area was started Thursday. A large level area has been made, and several large loads of timbers unloaded there. A small office has been erected there.

---oOo---

EASTERN STARS MEET

A group of Mason City and Administration City women met Tuesday night in the social room of the recreation hall to discuss plans for the formation of a local chapter of the Order of Eastern Star. Another meeting is planned for the coming week. Those interested should get in touch with Mrs. H.E. Wilbert, in the government town for further information.

---oOo---

SAFETY MEETING

IN THE MESS HALL TUESDAY NIGHT
BE SURE AND COME

---oOo---

CONNECT HIGHWAY BRIDGE

The two sections of the state highway bridge were connected the first of the week, and it is expected that traffic will be permitted before many weeks. Much of the concrete for the floor of the structure has already been poured.

---oOo---

Lots were drawn Thursday by USBR men for rooms in the single men's dormitories across from the administration building. They will be occupied the last of the month by over 50 men.

COULIE TRADING CO

PEANUT
BUTTER 17¢

1 POUND GLASS

COFFEE

COLUMBIA 3lbs.
GEM
GROUND
FRESH 50¢

APPLES

McIntosh Reds

510¢
1bs.

Best for Eating or Cooking

GREEN

PEPPERS 10¢

3lbs.